

CLAIM AMENDMENTS

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Currently Amended) A plastic control plate for a hydraulic gearbox control device in a motor vehicle, said plate comprising

- a single piece body having an opening with a bottom wall having at least a partially flat area;

- at least one channel running through the plastic control plate for carrying a cooling medium, and

- a heat conduction metal body plate having a top surface and a bottom surface, said plate at least partially integrated in the plastic control plate arranged directly adjacent to the channel, wherein said heat conduction metal body plate top surface is flush with a top surface of the plastic **plate and wherein said bottom surface rests at least partially on said bottom wall of said opening and wherein said at least one channel is formed by said heat conduction metal body plate and said integral body.**

2. (Previously Presented) The plastic control plate as claimed in Claim 1, wherein the heat conduction body is an aluminum plate.

3. (Currently Amended) The plastic control plate as claimed in Claim 1, wherein the heat conduction body is arranged directly adjacent and in contact with **a-the at least one** channel whereby a cooling medium running through the channel flows against said body.

4. (Original) The plastic control plate as claimed in Claim 1, wherein a flat area of the heat conduction body is designed as a wall area of the channel.

5. (Original) The plastic control plate as claimed in Claim 1, wherein the heat conduction body is designed in the form of a U, wherein the inner sides of the U form wall areas of the channel.

6. (Cancelled)

7. (Currently Amended) An arrangement comprising a plastic control plate and a gearbox control electronics system comprising:

- a single piece plastic control plate comprising ~~at least one~~ a plurality of separate channels running through the plastic control plate for carrying a cooling medium, wherein ~~the each~~ channel is bounded on at least one side by the plastic control plate,

- a metal heat conduction body at least partially integrated in the plastic control plate and arranged directly adjacent to a portion of the at least one channel wherein the each channel is bounded on at least one side by the metal heat conduction body, and

a substrate carrying electronic components of the gearbox control electronics system arranged directly on the upper surface of the heat conduction body.

8. (Previously Presented) The arrangement as claimed in Claim 7, wherein the gearbox control electronics system is electrically contacted via a flexible circuit board.

9. (Previously Presented) The arrangement as claimed in Claim 7, wherein the gearbox control electronics system is electrically contacted via a stamped-grid arrangement, which extends partially over the upper surface of the plastic control plate and partially over the upper surface of the heat conduction body.

10. (Previously Presented) The arrangement as claimed in Claim 7, wherein the heat conduction body is an aluminum plate.

11. (Currently Amended) The arrangement as claimed in Claim 7, wherein the heat conduction body is arranged whereby a cooling medium running through the ~~at least one~~ plurality of channels flows against said body.

12. (Currently Amended) The arrangement as claimed in Claim 7, wherein a flat area of the heat conduction body is designed as a wall area of ~~the~~a channel.

13. (Cancelled)

14. (Original) The arrangement as claimed in Claim 7, wherein the upper surface of the plastic control plate is flush with the upper surface of the heat conduction body.

15. (Currently Amended) A gearbox control system comprising:

- a single piece plastic control plate having an opening with a bottom wall having at least a partially flat area,

- at least one channel running through the plastic control plate for carrying a cooling medium,

- a heat conduction body at least partially integrated in the plastic control plate and having a bottom surface and arranged directly adjacent to the at least one channel, wherein said bottom surface rests at least partially on said bottom wall of said opening and wherein said at least one channel is formed by said heat conduction metal body plate and said integral plastic control plate, and

- a gearbox control circuit arranged on a substrate arranged directly on an upper surface of the heat conduction body, wherein the gearbox control circuit is electrically contacted via a stamped-grid arrangement, partially extending over the upper surface of the plastic control plate and partially over the upper surface of the heat conduction body.

16. (Previously Presented) The gearbox control system as in Claim 15, wherein the gearbox control circuit is electrically contacted via a flexible circuit board.

17. (Cancelled)

18. (Previously Presented) The gearbox control system as in Claim 15, wherein the heat conduction body is an aluminum plate.

19. (Previously Presented) The gearbox control system as in Claim 15, wherein the heat conduction body is arranged whereby a cooling medium running through the at least one channel flows against said body.

20. (Original) The gearbox control system as in Claim 15, wherein a flat area of the heat conduction body is designed as a wall area of the channel.

21. (Original) The gearbox control system as in Claim 15, wherein the heat conduction body is designed in the form of a U, wherein the inner sides of the U form wall areas of the channel.

22. (Original) The gearbox control system as in Claim 15, wherein the upper surface of the plastic control plate is flush with the upper surface of the heat conduction body.